	Application No.	Applicant(s)
Notice of Allowability	09/945,096	DEROSIER ET AL.
	Examiner	Art Unit
	Scott L. Jarrett	3623
The MAILING DATE of this communication application application application application and the communication application of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate comm RIGHTS. This application is a	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to 10/12/2007.		
2. X The allowed claim(s) is/are 46,48 and 49.		
 3. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). 	ve been received. ve been received in Application	on No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftspe	erson's Patent Drawing Revie	w (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	t 1.84(c)) should be written on t n the header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN	DOSIT OF BIOLOGICAL MAT T FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948	6. Interview S	Summary (PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No. 7.	/Mail Date Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	t 8. 🗌 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	- 11
		TADIO D. VAEIZ
		TARIQ R. NAFIZ RVISORY PATENT EXAMINER CHNOLOGY CENTER 3600

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ALLOWANCE

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1. The following is an Allowance in response to the Amendment submitted on October 12, 2007. Applicant's amendment amended 46 and 48-49 and canceled claims 1-45, 47 and 50-53. Claims 46 and 48-49 are currently pending and allowed below.

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance.

The present invention is directed a method for classifying schoolchildren into mutually exclusive sociometric social classifications based on peer nominations to social preference questions in a survey of a group of schoolchildren wherein the system calculates and reports a probability score for each schoolchild indicative of the probability of the schoolchild being classified in each sociometric social classification upon re-assessment (i.e. probability that schoolchildren would be classified the same way upon re-assessment), wherein the probability of each schoolchild's Social Preference score upon re-assessment would fall within the numeric ranges of greater than +1, less than -1, between -1 and +1, and between -.5 and +.5, are respectively:

PzSPPosI = P(zSP) > 1 = cdf(zSP - 1);

PzSPNeqI = P(zSP) -1 = cdf(-1 - zSP);

PzSPNominaI = P(-I .5) = (1-cdf(zSP - .5)) * cdf(.5 + zSP);

where cdf(*) denotes a cumulative density function

as well as calculates a strength scores associated with each classification for each schoolchild wherein the strength scores are statistical values that represent how

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fixed or fluid the classification is over time.

The closest prior art SSRAT as evidenced by at least the following reference:

Maassen et al., SSRAT: The processing of rating scales for the determination of twodimensional sociometric status (1998), SociometryPlus by Online, Ltd. aspects of which
are disclosed in at least the following: SociometryPlus 2.0b – Help Files & Screen Shots
(April 2000) Sociometry.com Web Pages (April 2000) and Sherman, Lawrence,
Sociometry In The Classroom: How To Do It (October 19, 2000) fail to teach or suggest
either singularly or in combination a method for the sociometric analysis of a group of
schoolchildren comprising generating a probability score for each schoolchild indicative
of the probability of the schoolchild being classified in each sociometric social
classification upon re-assessment, wherein the probability of each schoolchild's Social
Preference score upon re-assessment would fall within the numeric ranges of greater
than +1, less than -1, between -1 and +1, and between -.5 and +.5, are respectively:

PzSPPosI = P(zSP) > 1 = cdf(zSP - 1);

PzSPNeqI = P(zSP) -1 = cdf(-1 - zSP);

PzSPNominal = P(-1.5) = (1-cdf(zSP -.5)) * cdf(.5 + zSP);

where cdf(*) denotes a cumulative density function

as recited in independent claim 46.

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SSRAT teaches a method of sociometric analysis of a group of schoolchildren comprising (Figure 1; Tables 1, 3):

- surveying the schoolchildren to obtain peer nominations to social preference questions (Column 1, Last Two Paragraphs, Page 675; Column 2, Paragraphs 1-2, Page 676; Column 2, Paragraphs 2-3, Page 678; Table 1);
- analyzing the peer nominations to generate standardized liked most (zLM) and liked least (zLL) metrics for each schoolchild (Column 1, Last Two Paragraphs, Page 675; Column 2, Paragraphs 1-2, Page 676; Table 1);
- generating standardized Social Preference (zSP) and Social Impact (zSI) scores from the standardized liked most and liked least metrics (Column 1, Last Two Paragraphs, Page 675; Column 2, Paragraphs 1-2, Page 676; Table 1);
- classifying each of the schoolchildren into one of a plurality of mutually exclusive sociometric classifications based on the metrics (Column 1, Last Two Paragraphs, Page 675; Column 2, Paragraphs 1-2, Page 676; Table 1);
- generating a probability score (value, number, metric, measure, etc.) for each schoolchild indicative of the probability of the schoolchild being classified in each sociometric/social classification (Column 2, Page 675; Column 1, Last Two Paragraphs, Page 676; Column 2, Paragraphs 1-3, Page 676; Column 1, Paragraphs 1-2, 4-5, Page 677; Column 1, Last Two Paragraphs, Page 678).

SSRAT does not expressly teach generating a probability score for each schoolchild indicative of the probability of the schoolchild being classified in each

sociometric social classification upon re-assessment, wherein the probability of each schoolchild's Social Preference score upon re-assessment would fall within the numeric ranges of greater than +1, less than -1, between -1 and +1, and between -.5 and +.5, are respectively:

PzSPPosl = P(zSP) > 1 = cdf(zSP - 1);

PzSPNeql = P(zSP) -1 = cdf(-1 - zSP);

PzSPNominal = P(-I .5) = (1-cdf(zSP - .5)) * cdf(.5 + zSP);

where cdf(*) denotes a cumulative density function

as recited in independent claim 46 nor calculating the relative probability of each schoolchild's sociometric classification upon re-assessment or calculating strength scores for each schoolchild and each sociometric social classification indicative of the degree to which the schoolchild's sociometric status is likely to remain the same or change in future re-assessments as claimed in Claim 49.

Sherman teaches performing the sociometric analysis of school children in an analogous art of sociometric analysis for the purposes of using well-known sociometric techniques and methods to understand schoolchildren status and/or relationships in order to identify potentially at risk children (Paragraphs 1-2, Page 3).

More generally Sherman teaches the traditional and well known methods for collecting and analyzing sociometric data including: peer nominations/ratings, sociometric ranking, social distance, recognition scale (Page 39), target technique (Pages 12-13) and the like (Pages 1, 12, 17) as well as the generating of a plurality of

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sociometric measures, some of which are standardized, including but not limited to social distance (Pages 41-42), z-scores (e.g. social preference, social impact; Page 40), social status (Page 40), weighted popularity (Page 38); sociograms (Page 5, 12, 38; Figure 4), nominee/nominator matrix (Page 8), personal social distance rating (Page 41, Last Paragraph); bar graphs (Page 10, Figure 3), social ranking (Pages 42-43), and the like.

Sherman further teaches classifying individuals, based on one or more sociometrics, including but not limited to popular, liked more than disliked, disliked more than like, controversial, rejected and neglected (Pages 12-13, 41).

Sherman does not expressly teach generating a probability score for each schoolchild indicative of the probability of the schoolchild being classified in each sociometric social classification upon re-assessment, wherein the probability of each schoolchild's Social Preference score upon re-assessment would fall within the numeric ranges of greater than +1, less than -1, between -1 and +1, and between -.5 and +.5, are respectively:

PzSPPosl = P(zSP) > 1 = cdf(zSP - 1);

PzSPNeql = P(zSP) -1 = cdf(-1 - zSP);

PzSPNominal = P(-I .5) = (1-cdf(zSP - .5)) * cdf(.5 + zSP);

where cdf(*) denotes a cumulative density function

as recited in independent claim 46.

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None of the prior art of record, taken individually or in any combination, teach, inter alia, a method for the sociometric analysis of a group of schoolchildren comprising generating a probability score for each schoolchild indicative of the probability of the schoolchild being classified in each sociometric social classification upon reassessment, wherein the probability of each schoolchild's Social Preference score upon re-assessment would fall within the numeric ranges of greater than +1, less than -1, between -1 and +1, and between -.5 and +.5, are respectively:

$$\label{eq:pzspposl} \begin{split} &\text{PzspPosl} = \text{P(zsp)} > 1 = \text{cdf(zsp - 1)}; \\ &\text{PzspNeql} = \text{P(zsp)} - 1 = \text{cdf(-1 - zsp)}; \\ &\text{PzspNominal} = \text{P(-I .5)} = (1 - \text{cdf(zsp - .5)}) * \text{cdf(.5 + zsp)}; \\ &\text{where cdf(*) denotes a cumulative density function} \end{split}$$

as recited in independent claim 46.

Further the prior art of record does not teach nor suggest calculating the relative probability of each schoolchild's sociometric classification upon re-assessment or calculating strength scores for each schoolchild and each sociometric social classification indicative of the degree to which the schoolchild's sociometric status is likely to remain the same or change in future re-assessments as claimed in Claim 49.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Ward, Distinctions Between Sociometric Status Groups (1996), teaches the well known sociometric classification of schoolchildren using peer nominations (e.g. like most, liked least, etc.) wherein the schoolchildren are periodically re-assessed/tested.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott L. Jarrett whose telephone number is (571) 272-7033. The examiner can normally be reached on Monday-Friday, 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hafiz Tariq can be reached on (571) 272-6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Asst. Examiner

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